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Amendments to the Specification:

Please replace paragraph 0040, beginning at page 20, line 15, with the following amended paragraph:

[0040] Example 2. Modeling of six olfactory receptors. Sequences for ORS25, ORS18, ORS19, ORS6, ORS46 and ORS50 were obtained from taken from Malnic et al. For each receptor, the membrane was simulated by using explicit lipid bilayers of dilauroylphosphatidyl choline. The choice of lipid in the OR case is supported by experimental indications, Gimenez, C. (1998) Rev. Neurol. (Paris) 26, 232-239; Kiefer, H. et al. (1996) Biochemistry 35, 16077-16084, that the membrane surrounding the ORs in vivo can be satisfactorily simulated by using a single-component lipid system of dilauroylphosphatidyl choline. Final atomic level models for the six receptors are shown in FIG. 6. Predicted structural models for S6, S18, S19, S25, S46 and S50 are included in PDB format in Tables 2 through 7, respectively, submitted on compact disc and incorporated by reference above. An explanation of the PDB file format can be found on the Internet at the Protein Data Bank website. See also Berman, H. M., et al. (2000) Nucleic Acids Res. 28, 235-242.